NEMA Standards Publication

ANSI/NEMA C136.4-2003 (R2013)

American National Standard for Roadway and Area Lighting Equipment-Series Sockets and Series-Socket Receptacles

National Electrical Manufacturers Association

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American National Standard

For Roadway and Area Lighting Equipment—Series Sockets and Series-Socket Receptacles

Secretariat:

National Electrical Manufacturers Association

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FOREWORD

At the time this standard was approved the ANSI C136 committee was composed of the following members:

Alabama Power
American Electric Lighting
Caltrans
Ceravision
City of Kansas City, Missouri
City of Los Angeles, Bureau of Street Lighting
Duke Energy
Duke Energy - Florida
Eaton's Cooper Lighting
Edison Electric Institute
EPRI
EYE Lighting International of N.A., Inc.
Florida Power and Light
FRE Composites (2005) Inc.
GE Lighting
Georgia Power Company
Gulf Power Company
Hapco
Hapco Aluminum Pole Products
Holophane An Acuity Brands Company
Hubbell Lighting, Inc.
Inovus Solar
Intelligent Illuminations Inc.
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National Grid
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Philips Lumec
PNNL
ROAM/DTL
SELC Lighting
Shakespeare Composite Structures
South Carolina Electric & Gas
SouthConn Technologies, Inc.
StressCrete Ltd/King Luminaire Co., Inc.
Sunrise Technologies, Inc. / Outdoor Lighting Controls
TE Connectivity
Toshiba International Corporation
Utility Metals Division of Fabricated Metals, LLC
Valmont Structures
Vamas Engineering and Consultants
Vanda Shields
Xcel Energy

1 SCOPE

This standard covers the following equipment for roadway and area luminaries:

a) Series sockets having medium impact strength and intended for service at high temperatures.
b) Series sockets having high impact strength and intended for service at limited temperatures.
c) Series-socket receptacles (here in-after called the receptacles) in the 5000 V classification.

2 NORMATIVE REFERENCES

This standard shall be used in conjunction with the following publications. When these standards are superseded by an approved revision, the revision shall apply.

ANSI C136.2-1996, *American National Standard for Roadway and Area Lighting—Luminaires—Voltage Classification.*

3 INFORMATIVE REFERENCES

This standard shall be used in conjunction with the following publications. When these standards are superseded by an approved revision, the revision shall apply.

ANSI C136.1-1991 (R1996), *American National Standard for Roadway and Area Lighting—Filament Lamps—Guide for Selection.*

ANSI C136.5-1989 (R1995), *American National Standard for Roadway and Area Lighting—Film Cutouts.*

ANSI C136.6-1997, *American National Standard for Roadway and Area Lighting—Metal Heads and Reflector Assemblies—Mechanical and Optical Interchangeability.*

NOTE ANSI Standards are available from Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112-5776 Phone: 303/397-7956, Fax 303/397-2740, e-mail: global@his.com or www.global.his.com.

4 VOLTAGE CLASSIFICATION

The voltage classification shall be in accordance with ANSI C136.2.

5 GENERAL

5.1 Clearances and fitting dimensions for series sockets

Clearances and fitting dimensions for series sockets shall be in accordance with **Figure 1**.

5.2 Clearances and fitting dimensions for receptacles

Clearances and fitting dimensions for receptacles shall be in accordance with **Figure 2**.

5.3 Dimensions for series-socket and receptacle bodies

Dimensions for series-socket and receptacle bodies shall be in accordance with the standard practice of the manufacturer and are shown in outline form only in Figures 1 and 2.

5.4 Current-carrying parts

Current-carrying parts of series sockets and receptacles shall be capable of carrying 20 A continuously.